features of your new air conditioner

- **Slim & Smart Design**

  Extremely slim and compact design will allow this air conditioner to fit in any kind of interior space.

- **mpi**

  mpi function generates hydrogen(H) and oxygen(O_2) to attack undesirable air contaminants such as bacteria, pollen, and odor. It makes you breathe better as if you were staying around waterfalls, ocean surf, rivers and mountains.

- **2Way air outlet**

  There are two separate air outlets for cooling and heating. Having warmer air coming out from the bottom part of the air outlet will spread the warm air evenly throughout the room. Stay cooler and warmer in every corner of your room.

- **Cost Efficient System**

  Your new air conditioner not only provides maximum cooling power in the summer, but can also be an efficient heating method in the winter with the advanced “Heat Pump” system. This technology is up to 300% more efficient than electrical heating, so you can further reduce its running cost. Now, meet year-round needs with one air conditioner.

SAMSUNG

For easy future reference write the model and serial number down. You will find your model number on the right side of the air conditioner.

Model #_____

Serial #_____

safety information

To prevent electric shock, disconnect the power before servicing, cleaning, and installing the air conditioner.

SAFETY INFORMATION

Before using your new air conditioner, please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance.

Because the following operating instructions cover various models, the characteristics of your air conditioner may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at www.samsung.com.

Important safety symbols and precautions:

WARNING	Hazards or unsafe practices that may result in **severe personal injury or death.**
CAUTION	Hazards or unsafe practices that may result in **minor personal injury or property damage.**
CAUTION	To reduce the risk of fire, explosion, electric shock, or personal injury when using your air conditioner, follow these basic safety precautions:

	Do NOT attempt.
	Do NOT disassemble.
	Do NOT touch.
	Follow directions carefully.
	Unplug the power plug from the wall socket.
	Make sure the machine is grounded to prevent electric shock.
	Call the contact center for help.
	Note.

These warning signs are here to prevent injury to you and others.
Please follow them carefully.
After reading this section, keep it in a safe place for future reference.

SEVERE WARNING SIGNS

Do not place the air conditioner near hazardous substances or equipment that releases free flames to avoid fire, explosions or injuries.
- Potential risk of fire hazard or explosion.

Do not install the outdoor unit at an unstable place or elevated surface where there is potential risk of falling.
- If the outdoor unit falls, it may cause personal injury or loss of property.

Failure or damage may occur if any changes or modification that is not stated in the installation manual was performed. In this case, user will be responsible for the repair expenses.

Install the air conditioner away from direct exposure to sunlight, heating apparatus, and humid places.
- Hang curtains on windows to boost cooling efficiency and to avoid the risk of electric shock.

Do not cut the power plug and connect to a different power cable.

Do not yank the power cable and touch the power plug with hands.
- Potential risk of fire or electric shock.

Never use a damaged or dusted power plug, power cable, or loosened power receptacle.
- Potential risk of fire or electric shock.

Install an exclusive circuit breaker and short-circuit breaker for the air conditioner.
- Potential risk of electric shock or fire.

Do not insert anything such as fingers or branches into the air conditioner vents while the air conditioner is running.
- Keep the children away from the air conditioner to prevent them from putting their finger on the air conditioner. Potential risk of personal injury.

Ensure no water gets into the air conditioner.
- Potential risk or electric shock.
- If the water gets into the air conditioner, stop and unplug the power source immediately.

Turn off the air conditioner using the provided remote control or control accessory (if provided). Do not unplug to turn off the unit (unless there is an immediate danger).

Do not run the air conditioner for an extended period of time in a room with the door closed or with babies, elderly or disabled people.
- Open the door or windows to ventilate your room at least once an hour to prevent oxygen shortage.

The air conditioner is composed of moving parts. Keep children away from the unit to avoid physical injury.

Make sure that children take precautions against access to the air conditioner and they do not play with the unit.

Do not clean the interior of air conditioner on your own.

- You may damage the parts which can cause electric shock or fire.
- Consult contact center for cleaning the interior of the air conditioner.

Do not connect the air conditioner with heating apparatus or attempt to disassemble, remodel or repair it yourself.

- Potential risk of malfunction, electric shock or fire. If repairs are needed, consult the contact center.

Consult the place of purchase or contact center to install, reinstall or disassemble the air conditioner.

- Improper installation carries a risk of unit malfunction, water leakage, electric shock or fire.
- If installing in specialty areas, such as a factory complex or saline coastal area, consult the place of purchase or contact center for specific installation details.
- The units must be installed according to distances declared, in order to permit accessibility from each side, either to guarantee correct operation of maintenance or repairing products. The unit's parts must be reachable and removable completely under safety condition (for people or things).

Consult a dealer regarding the appropriate measures to prevent the allowable concentration from being exceeded.

- If the refrigerant leaks, and cause the concentration limit to be exceeded, hazards due to lack of oxygen in the room may result.

If the indoor unit gets wet, turn the power off immediately and call your nearest contact center.

- Potential risk of fire or electric shock.

Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.

Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.

Use a rated circuit breaker only.

- Never use steel wires or copper wires as a circuit breaker. It may cause fire or unit malfunctions.

Do not put undue stress or place heavy object on the power cable.

Do not bend the power cable excessively.

- Potential risk of fire or electric shock.

To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units in the protection tube.

When opening or closing the front panel, use a stable stool and watch your steps carefully.

Disconnect the air conditioner from power supply before it is repaired or disassembled.

Clean the air conditioner after the inner fan stops operating.

- Potential risk of injury or electric shock.

WARNING SEVERE WARNING SIGNS (CONT'D)

Use a receptacle that has a ground terminal. The receptacle must be used exclusively for the air conditioner.
- Improper electrical grounding may cause electric shock or fire.

Be sure to ground the unit. Do not connect the ground wire to gas or water pipes, lighting rods, or telephone grounding lines.
- If the unit is not properly grounded, electric shock may result.

If you smell burning plastic, hear strange sounds, or see smoke coming from the unit, unplug the air conditioner immediately and call a contact center.
- Potential risk of fire or electric shock.

CAUTION CAUTION SIGNS

Do not block or place items in front of the air conditioner. Do not step, hang onto, or place heavy items on the air conditioner.
- Potential risk of personal injury.

If failure or damage occurs on the conditions of improper use not followed by the installation manual, there will be an extra labor charge for installing and construction.
- Potential risk of malfunction, electric shock or fire if repairs or installations are attempted by a non-qualified service technician.

Do not spray flammable gases such as insecticide near the air conditioner.
- Potential risk of electric shock, fire or unit malfunction.

Do not open the front grille during operation.
- Potential risk of electric shock or unit malfunction.

Cool air should not flow directly towards people, pets, and plants.
- It is harmful to your health, pets, and plants.

Do not drink drain water coming out of the air conditioner.
- Potential risk of health hazard.

Do not allow children to climb on the air conditioner.

Do not use the air conditioner as a cooling precision instrument for food, pets, plants, cosmetics or machinery.

Do not pull or give excessive shock to the air conditioner.
- Potential risk of fire, or unit malfunction and there are risk of personal injury because unit may fall down.

Do not spray water directly on the air conditioner or use benzene, thinner or alcohol to clean the surface of the unit.
- Potential risk of electric shock or fire.
- Potential risk of damage to the air conditioner.

Do not place any objects, especially containers with liquid.

Do not touch the pipe connected to the air conditioner.

Install the indoor unit away from lighting apparatus using the ballast.
- If you use the wireless remote control, reception error may occur due to the ballast of the lighting apparatus.

Install the outdoor unit where operating noise and vibration will not disturb your neighbor and in a well-ventilated area with no obstacle.
- Potential risk of malfunction.
- Operating noise may disturb your neighbor.

Make sure that there are no obstacles or covers that block the air conditioner.

Allow sufficient space for air circulation.
- Insufficient ventilation may result in poor performance.

If the power cable is damaged, the manufacturer or a qualified service technician must replace it.

If a power outage occurs while the air conditioner is working, turn off the power source immediately.

Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.

Check for damage on delivery. If damaged, do not install the air conditioner and call the place of purchase immediately.

Keep indoor temperatures stable and not extremely cold, especially where there are children, elderly or disabled people.

The packaging material and used batteries of the remote controller (optional) must be disposed of in accordance with the national standards.

The refrigerant used in the air conditioner must be treated as chemical waste. Dispose the refrigerant following national standards.

Have a qualified service technician install the air conditioner and perform a trial operation.

Firmly connect the drain hose to the air conditioner for proper water drainage.

Check for damages on the outdoor unit installation pad at least once a year.
- Potential risk of personal injury or property loss.

When using a wireless remote control, the distance should not be more than 7 meters from the air conditioner.

If the remote control is not used for a long period of time, remove the batteries to prevent leakage of electrolyte.

When cleaning the outdoor unit, touch the heat exchanger radiator fins with extreme care.
- Wearing thick gloves can protect your hands.

Make sure that the condensed water dripping from the drain hose runs out properly and safely.

The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety: Young children should be supervised to ensure that they do not play with the appliance.

⚠CAUTION SIGNS (CONT'D)

Inspect the condition, electric connections, pipes and external case of the air conditioner regularly by a qualified service technician.

Do not open doors and windows in the room being cooled during operation unless necessary.

Do not block the air conditioner vents. If objects block the air flow, it may cause unit malfunction or poor performance.

Make sure there are no obstacles under the indoor unit.
- Potential risk of fire or loss of property.

The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.

Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things.

For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

Ensure the off-on and protection switches are properly installed.

Do not use the air conditioner if damaged. If problems occur, immediately stop operation and disconnect the plug from the power supply.

If the air conditioner will not be used for an extended period of time (for example, over several months), unplug the power from the wall.

Call the place of purchase or a contact center if repairs are needed.
- Potential risk of fire or electric shock if disassembly or repairs are attempted by a non-qualified service technician.

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ENGLISH

This product has been determined to be in compliance with the Low Voltage Directive (2006/95/EC), and the Electromagnetic Compatibility Directive (2004/108/EEC) of the European Union.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

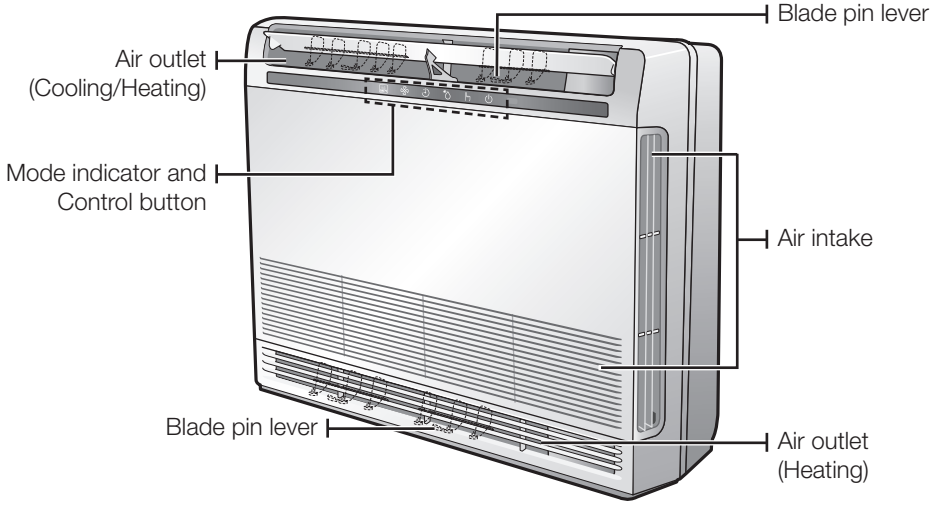
viewing your air conditioner before use

Congratulations on the purchase of the air conditioner. We hope you enjoy the features of your air conditioner and stay cool or warm with optimal efficiency.
Please read the user manual to get started and to make the best use of the air conditioner.

CHECKING THE INDOOR UNIT

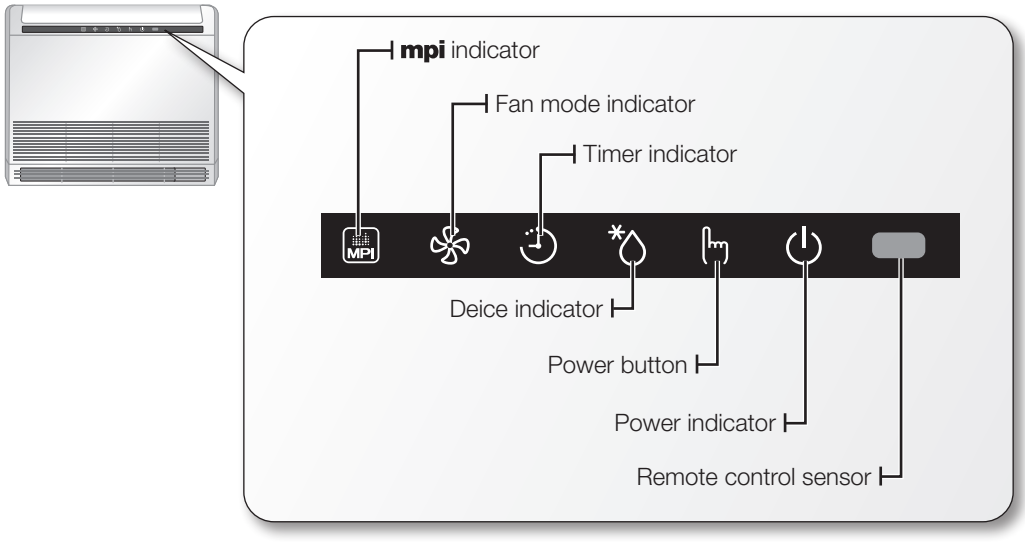
Carefully unpack your air conditioner, and check the unit to make sure it is not damaged.

Main parts



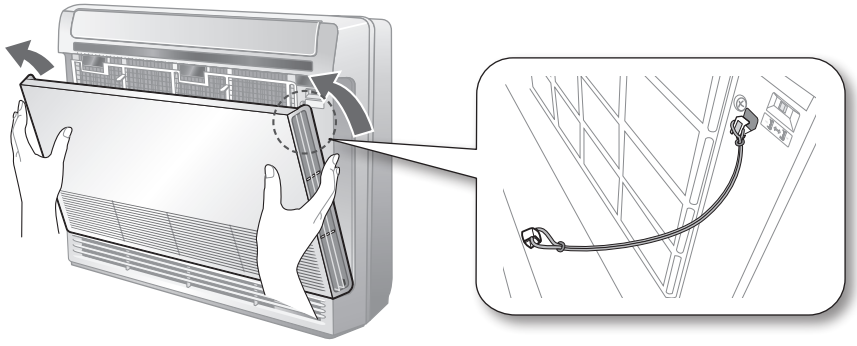
Your air conditioner may slightly look different from illustration shown above depending on your model.

Mode indicator and Control button



REMOVING THE FRONT PANEL

Grab the top portion of the front panel and pull the front cover towards yourself. Unhook the safety string and lift up the front panel.

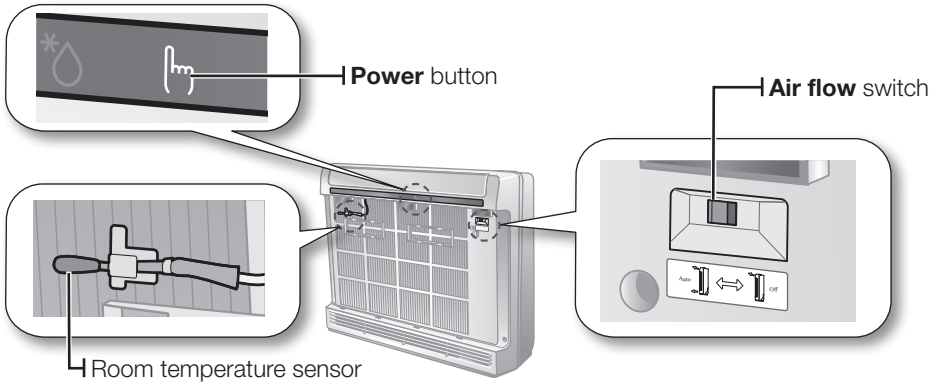


Viewing the power button and parts under the panel

You may locate the **Power** button among with the mode indicators. When the front panel is open, you may locate the temperature sensor and the **Air flow** switch. Temperature sensor is located on the top left side of the air conditioner just above the anti-allergy/deodorizing filter slot and the **Air flow** switch is located on the top right corner of the air conditioner.

You can turn on the air conditioner in Auto mode by pressing the **Power** button.
When you set the **Air flow** switch on Auto, it will open the bottom air outlet in Cool, Heat and Fan modes. However, in Silence mode, the bottom air outlet will be closed. Also, in Cool mode, the bottom air outlet will be closed within an hour. When you set the **Air flow** switch on Off, the bottom air outlet will be closed.

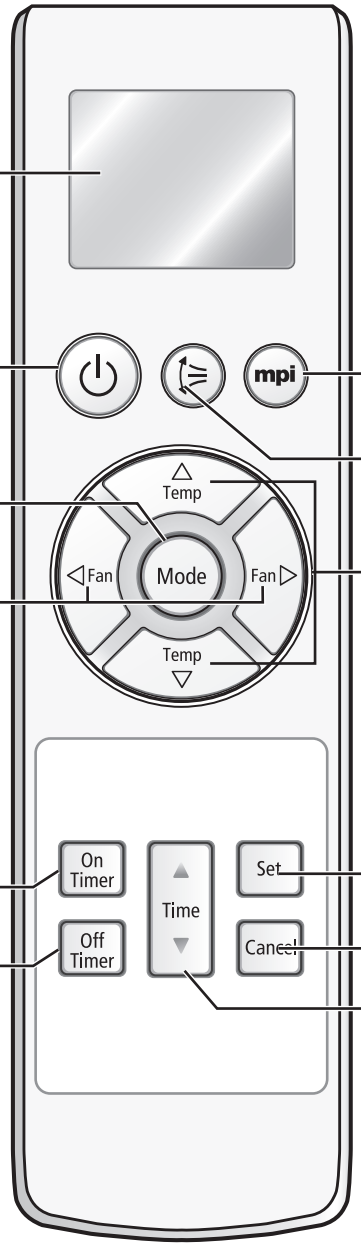
The room temperature sensor measures indoor room temperature.



viewing your air conditioner before use

CHECKING THE REMOTE CONTROL

You can activate the air conditioner by pointing the remote control away from it. When using the remote control, always point it directly at the air conditioner.



Remote control display

Power ⏻
Turn on/off the air conditioner, **mpi**

Mode
Set one of the 5 operating modes. (See pages 14~18 for instructions.)

Fan ◁ ▷
Adjust how much air flows through the air conditioner with the 4 different fan speeds such as Auto/Low/Medium/High.

On Timer
Set the On Timer on.

Off Timer
Set the Off Timer off.

mpi
Set the mpi mode on/off.

Air swing
Activate/Deactivate air flow blade movement automatically up and down.

Temp △▽
Increase/Decrease the temperature by 1˚C.

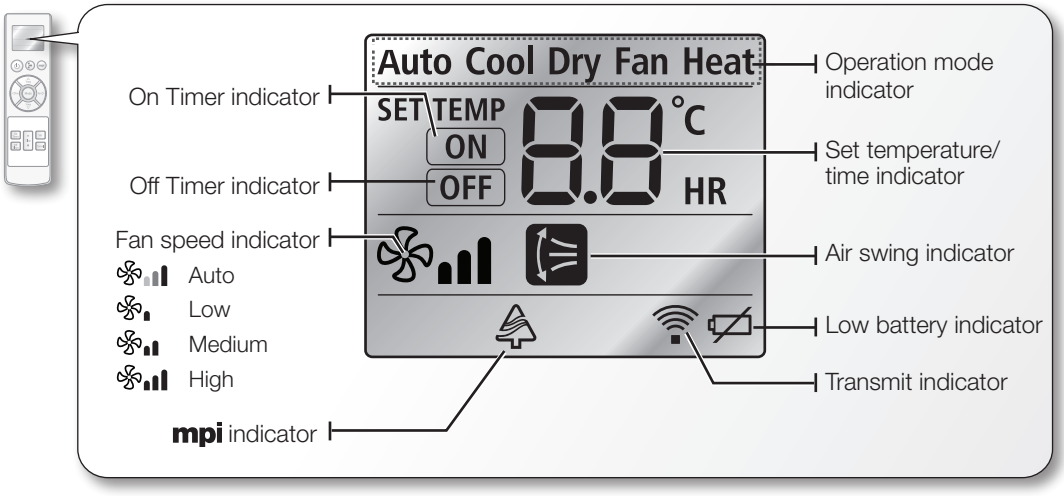
Set
Set the current Timer.

Cancel
Cancel the current Timer.

Time ▲▼
Increase/Decrease the time.

Each time you press the button, a short beep will sound and a transmit indicator appears on the remote control display.

Remote control display

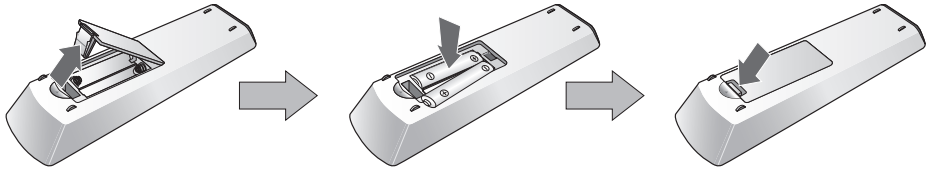


Using the remote control

- Point the remote control towards the remote control sensor of the unit.
- When properly pressing the button on the remote control, you will hear beep sound from the unit.

- The signal may not be received well of electronic lighting style fluorescent lamps, such as inverter fluorescent lamps are in the same space.
- If other electrical products operate by the remote control, call your nearest contact center.

Installing the batteries



1. **Push the lever as arrow indicates on the rear side of the remote control and pull up.**
2. **Insert two AAA batteries.**
   Check and match the "+" and "-" signs accordingly. Make sure you have inserted the batteries in correct position.
3. **Close the cover by place it back to its original position.**
   You should hear click sound when the cover is locked properly.

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

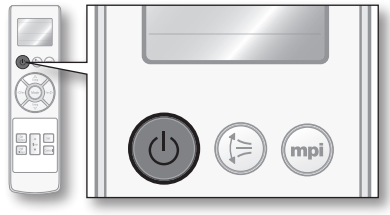
To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

operating basic function

TURNING THE AIR CONDITIONER ON AND OFF

Press the **Power** ⏻ button on the remote control.

You will hear a ringing sound and the air flow blade will move up and down automatically when air conditioner is properly on. The air conditioner will operate in the most recent operation mode used or Auto mode.
When you turn off the air conditioner, air flow blade will stop moving and remain closed.



Turning on/off your air conditioner without the remote control.

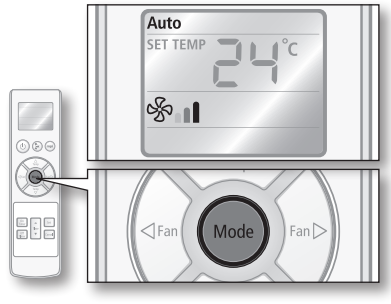
You can operate your air conditioner by pressing the **Power** ⏻ button on the right bottom side of the air conditioner.

SELECTING OPERATION MODE

Auto

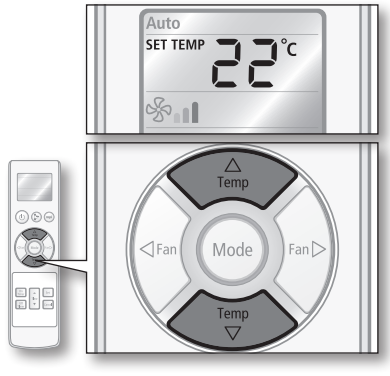
In Auto mode, the air conditioner will automatically set the temperature and fan speed depending on the room temperature detected by the room temperature sensor.

1. Turn on the air conditioner.
   Press the **Power** ⏻ button on the remote control.
2. Set the operation mode.
   Press the **Mode** button on the remote control until operation mode indicator displays Auto.
   The air conditioner will automatically set the fan speed, and operation mode to Cool or Heat depends on the room temperature.



When you press the **Mode** button, mode will change in order of Auto, Cool, Dry, Fan and Heat.

3. Set the Temperature.
   Press the **Temp** △ or ▽ button on the remote control to decrease or increase the desired temperature.
   You can set the desired temperature between the range of 16℃~30℃.



You can decrease/increase the temperature by 1℃.

- When the air conditioner is already operating in another mode, press the **Mode** button until Auto mode indicator appears on the remote control display.
- When you are using the remote control, make sure correct indicator which matches your selection appears on the remote control display.
- Air flow can be adjusted manually. (See page 19 for instructions.)

Cool

In Cool mode, the air conditioner will cool your room. You can adjust the temperature and the fan speed to feel cooler in hot season.

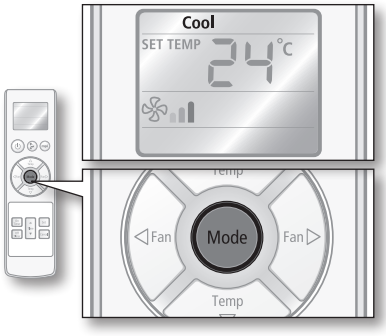
1. Turn on the air conditioner.

Press the **Power** ⏻ button on the remote control.

2. Set the operating mode.

Press the **Mode** button on the remote control until Cool mode indicator appears on the remote control display.

The air conditioner operates in Cool mode and will lower the temperature in your room.



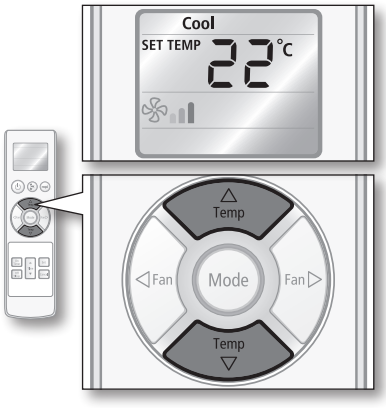
When you press the **Mode** button, mode will change in order of Auto, Cool, Dry, Fan and Heat.

---

3. Set the temperature.

Press the **Temp** △ or ▽ button on the remote control to decrease or increase the desired temperature.

You can set the desired temperature between the range of 16℃~30℃.



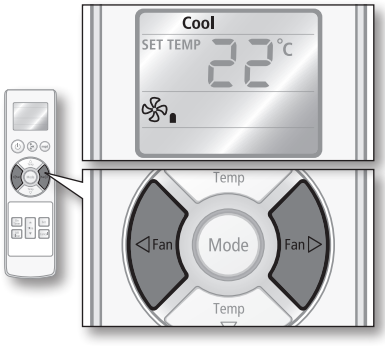
You can decrease/increase the temperature by 1℃.

---

4. Set the fan speed.

Press the **Fan** ◁ or ▷ button on the remote control to set the desired fan speed.

If room temperature reaches desired value, the air conditioner will shut off cooling for a while and just the fan runs.



When you press the **Fan** ◁ or ▷ button, fan speed will change in order of Auto, Low, Medium and High.

- When you are using the remote control, make sure correct indicator which matches your selection appears on the remote control display.
- Air flow can be adjusted manually. (See page 19 for instructions.)
- If current outside temperatures are much higher than the selected indoor temperature, it may take time to bring the inner temperature to the desired coolness.

SELECTING OPERATION MODE

Dry

The air conditioner in Dry mode acts like a dehumidifier by removing moisture from the indoor air. Dry mode makes the air feel refreshing in a humid climate.

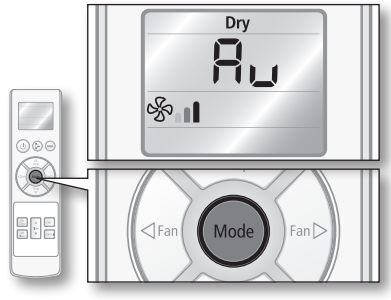
1. Turn on the air conditioner.

Press the **Power** ⏻ button on the remote control.

2. Set the operating mode.

Press the **Mode** button on the remote control until Dry mode and Auto fan speed indicator appear on the remote control display.

In Dry mode temperature will be set automatically and Au will appear on the remote control display.



When you press the **Mode** button, mode will change in order of Auto, Cool, Dry, Fan and Heat.

- When you are using the remote control, make sure correct indicator which matches your selection appears on the remote control display.
- Temperature/Fan speed cannot be adjusted while using this mode.
- Air flow can be adjusted manually. (See page 19 for instructions.)

Fan

Fan mode can be selected to ventilate your room. Fan mode will be helpful to refresh the stale air in your room.

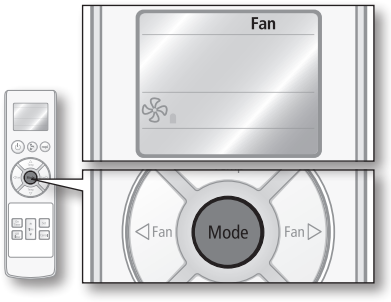
1. Turn on the air conditioner.

Press the **Power** ⏻ button on the remote control.

2. Set the operating mode.

Press the **Mode** button on the remote control until Fan mode indicator appears on the remote control display.

The air conditioner operates in Fan mode.

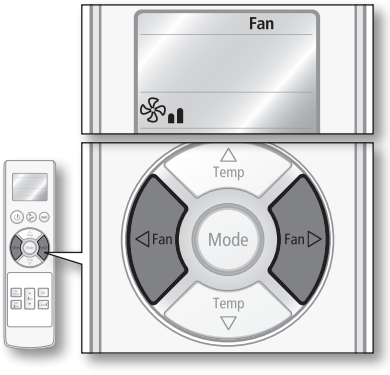


When you press the **Mode** button, mode will change in order of Auto, Cool, Dry, Fan and Heat.

---

3. Set the fan speed.

Press the **Fan Speed** button on the remote control to set the desired fan speed.



When you press the **Fan** ◁ or ▷ button, fan speed will change in order of Low, Medium and High.

- When you are using the remote control, make sure correct indicator which matches your selection appears on the remote control display.
- Air flow can be adjusted manually. (See page 19 for instructions.)

SELECTING OPERATION MODE

Heat

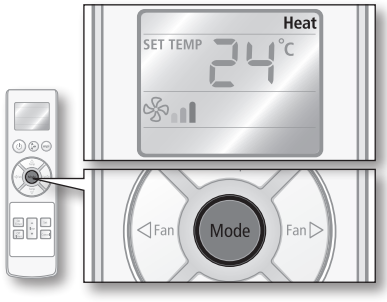
The air conditioner heats as well as cools. Warm your room with this versatile appliance in the cold of winter.

1. Turn on the air conditioner.

Press the **Power** ⏻ button on the remote control.

2. Set the operating mode.

Press the **Mode** button on the remote control until Heat mode indicator appears on the remote control display.
The air conditioner operates in Heat mode and warms your room.



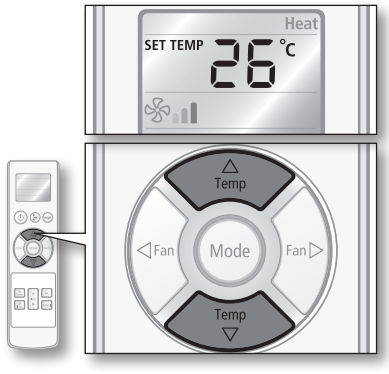
When you press the **Mode** button, mode will change in order of Auto, Cool, Dry, Fan and Heat.

---

3. Set the temperature.

Press the **Temp** △ or ▽ button on the remote control to decrease or increase the desired temperature.

You can set the desired temperature between the range of 16℃~30℃.



You can decrease/increase the temperature by 1℃.

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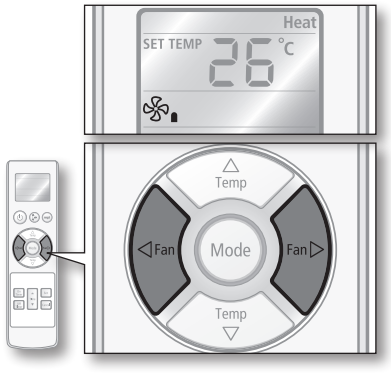
4. Set the fan speed.

Press the **Fan** ◁ or ▷ button on the remote control to set the desired fan speed.

If room temperature reaches desired value, heating will stop for a while.



- When you press the **Fan** ◁ or ▷ button, fan speed will change in order of Auto, Low, Medium and High.
- Fan may not operate for about 3~5 minutes at the beginning to prevent any cold blasts while the air conditioner is warming up.

- Air flow can be adjusted manually. (See page 19 for instructions.)
- Since the air conditioner heats the room by taking heat energy from outdoor air, the heating capacity may decrease when outdoor temperatures are extremely low. If you feel the air conditioner insufficiently heats, using an additional heating appliance in combination with the air conditioner is recommended.

ADJUSTING THE AIR FLOW DIRECTION

Air flow can be directed to your desired position.

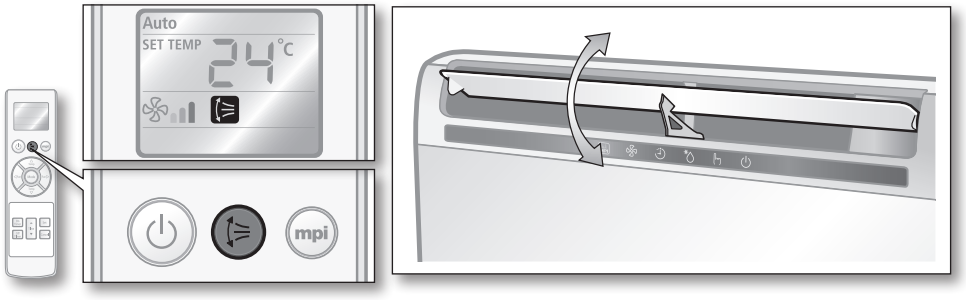
Vertical air flow

Air flow blades move up and down.

1. Press the **Air swing** button on the remote control.

   Air swing indicator will be on and the number of indicator lights move up and down. Air flow blades move up and down continuously to circulate the air.

   To keep the air flow direction in a constant position, press the **Air swing** button on the remote control again.

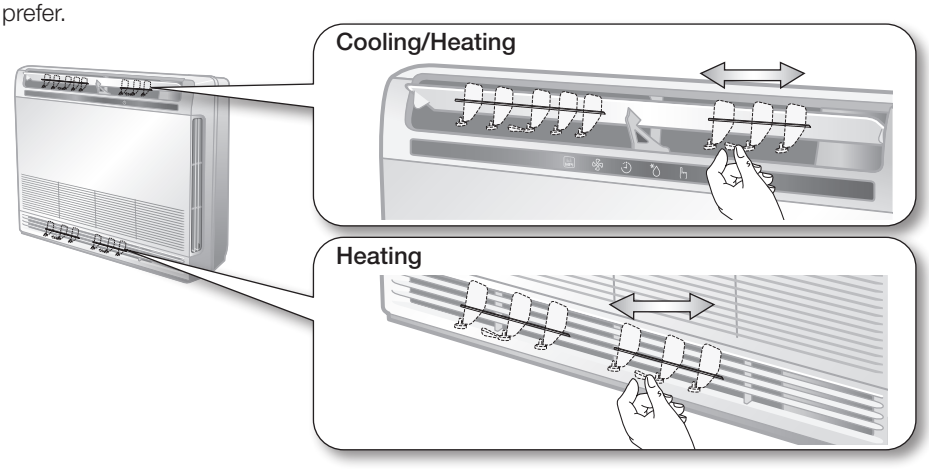


Vertical air flow direction is adjustable when the air conditioner is cooling the room.

Horizontal air flow

Make sure one of the blade pins that stick out of the air flow blades is not broken.

1. Move the blade pins left or right to keep the air flow direction in a constant position you prefer.



To avoid any injuries, please move the blade pin after stopping Air Swing mode.

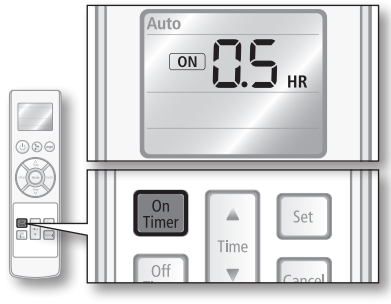
CAUTION While the air conditioner cools the room, operate the appliance with the air flow blades pointing upwards. If the unit operates in Cool mode for an extended period of time with the air flow blades pointing downward, moisture may generate from the temperature difference and thus carries the risk of electric shock or unit malfunction.

SETTING THE TIMER

This advanced Timer function allows you to turn on/off your air conditioner automatically even when you are away. Simply set the time and your air conditioner will turn on/off automatically.

On timer

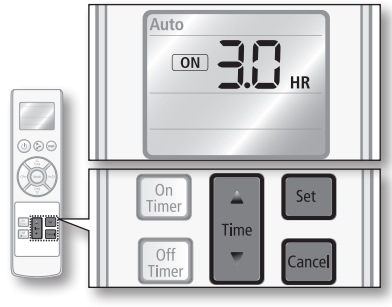
This function allows you to turn on the air conditioner automatically within the time range of 24 hours. On timer is available while your air conditioner is on/off.



1. Press the **On Timer** button on the remote control.

   On timer indicator blinks on the remote control display.

2. Set the time you want the air conditioner to turn on automatically.

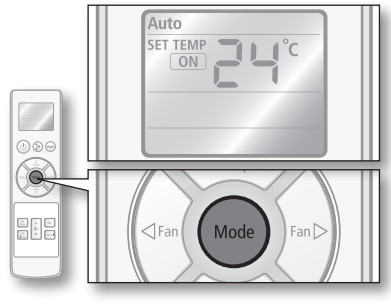


   Press the **Time** ▲ or ▼ button on the remote control to change the time setting while On timer indicator is blinking. You can set the time up to 24 hours, increasing in 30 minute unit up to first 3 hours and in hourly unit after first 3 hours.

3. Press the **Set/Cancel** button on the remote control to active it on.

   The remote control display will show the hour(s) you have set.
   The air conditioner will operate automatically at set time and then On timer indicator disappears. If On timer is not set within 10 seconds, the air conditioner will end setting.

4. Set the operating mode.



   Press the **Mode** button on the remote control until the desired mode appears on the remote control display.

   The air conditioner will operate in the mode you set.

On timer function is available in Auto/Cool/Dry/Fan/Heat mode.

- Temperature can also be adjusted. (See step 3 on page 15 for instructions.)
- After the set up while the unit is off, approximately after 10 seconds, all the other indicators will be gone except the On timer indicator and remaining time.
- Setting time allows you to change by pressing the **On Timer** button. Press the **Time** ▲ or ▼ button to change time setting and then press the **Set/Cancel** button to active it on.

To deactivate the On timer

1. Press the **Set/Cancel** button on the remote control.

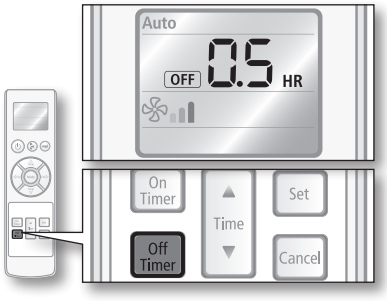
   On timer you set will be canceled and On timer indicator will disappear.

Off timer

This function allows you to turn off the air conditioner automatically within the time range of 24 hours. Off timer is functional when the unit is operating.

1. Press the **Off Timer** button on the remote control.

   Off timer indicator blinks on the remote control display.

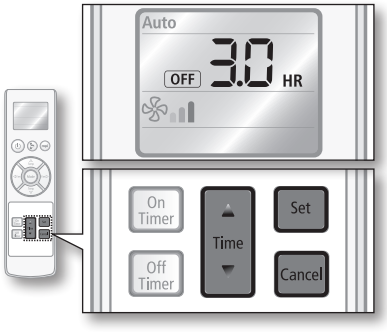


2. Set the time you want the air conditioner to turn off automatically.

   Press the **Time** ▲ or ▼ button on the remote control to change the time setting while Off timer indicator is blinking. You can set the time up to 24 hours, increasing in 30 minute unit up to first 3 hours and in hourly unit after first 3 hours.

3. Press the **Set/Cancel** button on the remote control to active it on.

   The remote control display will show the hour(s) you have set.
   The air conditioner will operate automatically at set time and then Off timer indicator disappears. If Off timer is not set within 10 seconds, the air conditioner will end setting.



- Setting time allows you to change by pressing the **Off Timer** button. Press the **Time** ▲ or ▼ button to change time setting and then press the **Set/Cancel** button to active it on.
- You can combine Off timer function with On timer function to turn on and then off the air conditioner at the desired time. (See page 22 for instructions.)

To deactivate the Off timer

1. Press the **Set/Cancel** button on the remote control.

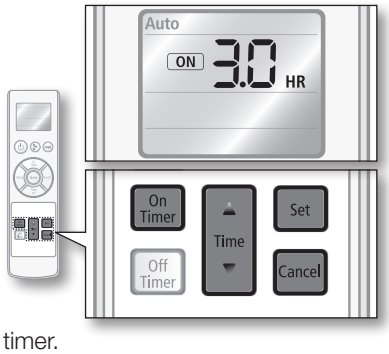
   Off timer you set will be canceled and Off timer indicator will disappear.

Off timer function is available in Auto/Cool/Dry/Fan/Heat mode.

SETTING THE TIMER

Combining On timer and Off timer

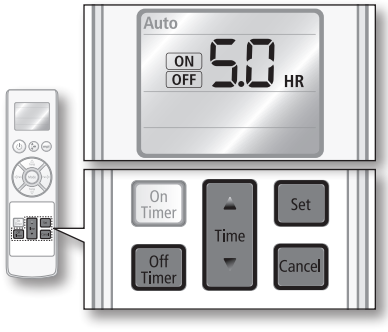
You can combine the On timer and Off timer together for more convenient use of the timer function.



1. Set the On timer.
   Press the **On Timer** button.
   Set the time with **Time** ▲ or ▼ button.
   Press **Set/Cancel** button to activate the On timer.

See page 20 for more detail instructions on setting On timer.

2. Set the Off timer.
   Press the **Off Timer** button.
   Set the time with **Time** ▲ or ▼ button.
   Press **Set/Cancel** button to activate the Off timer.



   When you set the time, there can be two possible options:

   On timer is shorter than Off timer

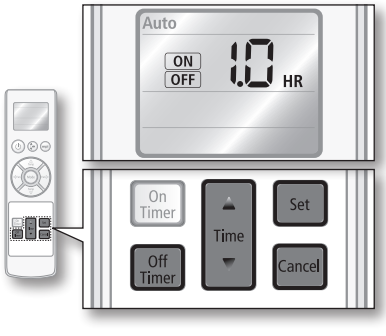
   The air conditioner will turn on and then off automatically. Set up should be done while the air conditioner is off.

   For example, If the On timer is set at 3 hours and the Off timer at 5 hours, the air conditioner will turn off automatically 3 hours after the set time and then operate for next 2 hours before turning off automatically.

   On timer is longer than Off timer

   The air conditioner will turn off and then on automatically. Set up should be done while the air conditioner is operating.

   For example, If the On timer is set at 3 hours and the Off timer at 1 hour, the air conditioner will turn off automatically an hour after the set time and remain off for 2 hours before turning on automatically.



See page 21 for more detail instructions on setting Off timer.

To deactivate the timer combination

1. Press the **Set/Cancel** button on the remote control.

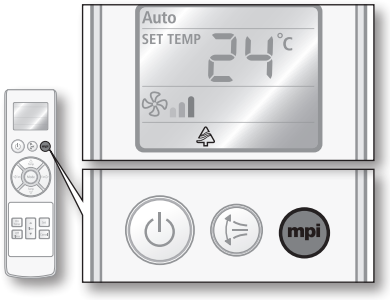
   Both of the On and Off timer will be canceled and the indicators will disappear.

USING THE mpi FUNCTION

mpi, Micro Plasma Ion, generates hydrogen(H) and oxygen(O_2) to remove a polluted substance and decomposition of such harmful particles. It makes you breathe better as if you were staying around waterfalls, ocean surf, rivers and mountains.

1. Press the **mpi** button on the remote control.

   mpi indicator will appears on the remote control display and the air conditioner generates MPI.



- The **mpi** mode can be selected whether the air conditioner is on/off.
- The **mpi** mode will be on automatically when you turn on the air conditioner.

To deactivate mpi mode

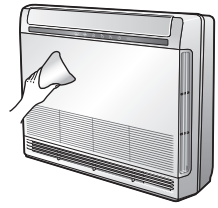
1. Press the **mpi** button on the remote control.

   mpi mode you set will be canceled and blue light will turn off.

cleaning and maintaining the air conditioner

CLEANING THE EXTERIOR

1. Wipe the surface of the unit with a slightly wet or dry cloth when needed.



CAUTION Do not use Benzene, Thinner or Clorox™.
They may damage the surface of the air conditioner and can create a risk of fire.

CLEANING THE FILTER

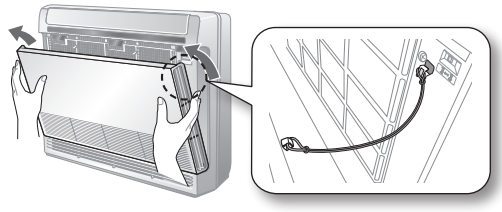
When cleaning the filter, make sure to unplug the power from the unit. No special tools are needed to clean it.

Air filter

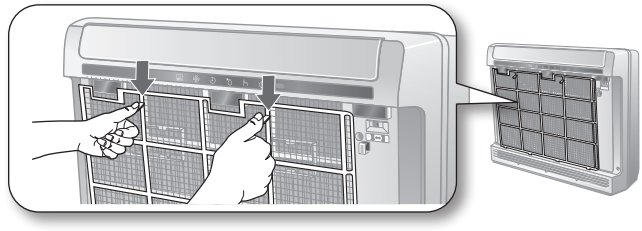
Washable air filter captures large particles from the air. The filter is cleaned with a vacuum or by hand washing. Filter clean indicator will light up when air filter need to be cleaned.

1. Open the front panel.

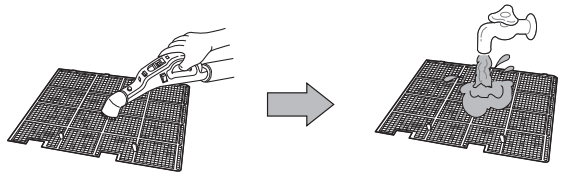
   Grab the top portion of the front panel and pull the front cover towards yourself. Unhook the safety string and lift up the front panel.



2. Grab the handle and slightly press the air filter down to bent the air filter. Then, pull the Air filter towards you and lift it up to remove the Air filter.



3. Clean the Air filter with a vacuum cleaner or soft brush. If dust is too heavy, then rinse it with running water and dry it in a ventilated area.



- For the best conditions, repeat every two weeks.
- If the Air filter dries in a confined (or humid) area, odors may generate. If it occurs, re-clean and dry it in a well-ventilated area.

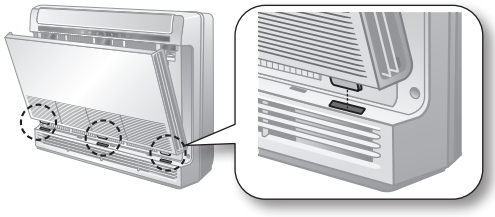
4. Insert the Air filter back in its original position.
5. Close the front panel.
   Grab the side of the front panel and place the bottom first, then push the panel.

Anti-allergy filter

Washable Anti-allergy filter leads to reduction in allergens that thrive in polluted air. The filter is cleaned with a vacuum or by hand washing.

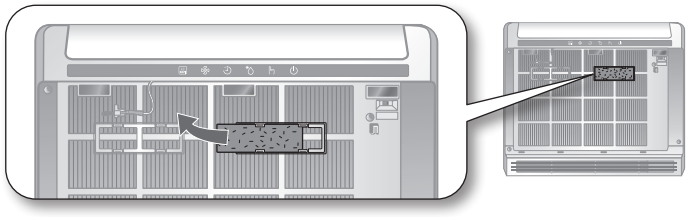
1. Open the front panel.

Grab the top portion of the front panel and pull the front cover towards yourself. Unhook the safety string and lift up the front panel.

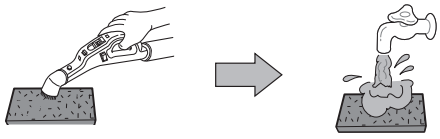


2. Grab the handle and slightly press the air filter down to bent the air filter. Then, pull the Air filter towards you and lift it up to remove the Air filter.

3. Pull and slide out the Anti-allergy filter.



4. Clean the Anti-allergy filter with a vacuum cleaner or soft brush. Then rinse it with running water and dry it in a ventilated area.



5. Install the Anti-allergy filter back in position.

6. Close the front panel.

Grab the side of the front panel and place the bottom first, then push the panel.

Clean the Anti-allergy filter every 3 months. The cleaning term may differ on usage and environmental conditions.

cleaning and maintaining the air conditioner

REPLACING THE FILTER

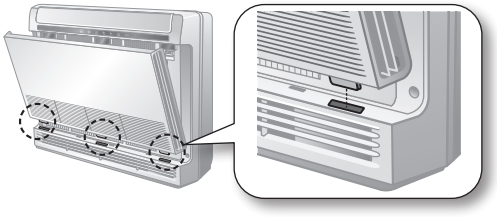
Replacement filter may be purchased from the retail store or ordered from the dealer where you purchased the unit. If you cannot find one, please call a contact center.

Deodorizing filter

Deodorizing filter absorbs efficiently cigarette smoke, pet odors and other unpleasant smells. Deodorizing filter cleaning is simple, just remove old filter and install a new one.

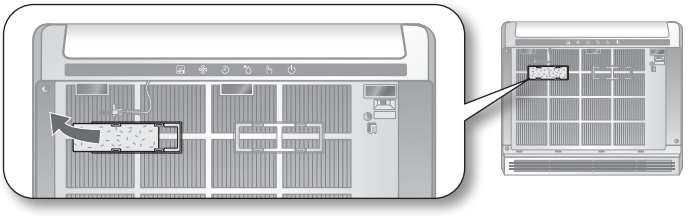
1. Open the front panel.

Grab the top portion of the front panel and pull the front cover towards yourself. Unhook the safety string and lift up the front panel.



2. Grab the handle and slightly press the air filter down to bent the air filter. Then, pull the Air filter towards you and lift it up to remove the Air filter.

3. Pull and slide out the Deodorizing filter.



4. Install the new Deodorizing filter back in position.

5. Close the front panel.

Grab the side of the front panel and place the bottom first, then push the panel.

- The replacement timing of the Deodorizing filter differs depending on usage and environmental conditions.
- Even if Deodorizing and Anti-allergy filters are installed in an inverted position it will not significantly affect its filtration system.

MAINTAINING YOUR AIR CONDITIONER

If the air conditioner will not be used for an extended period of time, dry the air conditioner to maintain it in best condition.

1. Dry the air conditioner thoroughly by operating in Fan mode for 3 to 4 hours and disconnect the power plug. There may be internal damage if moisture is left in components.
2. Before using the air conditioner again, dry the inner components of the air conditioner again by running in Fan mode for 3 to 4 hours. This helps remove odors which may have generated from dampness.

Periodical checks

Refer to the following chart to maintain the air conditioner properly.

Type	Description	Monthly	Every 4 months	Once a year
Indoor unit	Clean the air filter (1)	●		
	Clean the condensate drain pan (2)			●
	Thoroughly clean the heat exchanger (2)			●
	Clean the condensate drain pipe (2)		●	
	Replace the remote control batteries (1)			●
Outdoor unit	Clean the heat exchanger on the outside of the unit (2)		●	
	Clean the heat exchanger on the inside of the unit (2)			●
	Clean the electric components with jets of air (2)			●
	Verify that all the electric components are firmly tightened (2)			●
	Clean the fan (2)			●
	Verify that all the fan assembly is firmly tightened (2)			●
	Clean the condensate drain pan (2)			●

The checks and maintenance operations described are essential to guarantee the efficiency of the air conditioner. The frequency of these operations varies according to the characteristics of the area, the amount of dust, etc.

(1) The described operations should be performed more frequently if the area of installation is very dusty.

(2) These operations must always be performed by qualified personnel. For more detailed information, see the Installation Manual.

cleaning and maintaining the air conditioner

MAINTAINING YOUR AIR CONDITIONER

Internal protections via the unit control system

This internal protection operates if an internal fault occurs in the air conditioner.

Type	Description
Against cold air	The internal fan will be off to against cold air when the heat pump is heating.
De-ice cycle	The internal fan will be off to against cold air when the heat pump is heating.
Anti-protection of internal battery	The compressor will be off to protect internal battery when the air conditioner operates in Cool mode.
Protect compressor	The air conditioner does not start operating immediately to protect the compressor of the outdoor unit after it has been started.

If the heat pump is operating in Heat mode, De-ice cycle is actuated to remove frost from an outdoor unit that may have deposited at low temperatures.

The internal fan is switched off automatically and restarted only after the de-ice cycle is completed.

TROUBLESHOOTING

Refer to the following chart if the air conditioner operates abnormally. This may save time and unnecessary expenses.

PROBLEM	SOLUTION
The air conditioner does not operate immediately after it has been restarted.	• Because of the protective mechanism, the appliance does not start operating immediately to keep the unit from overloading. The air conditioner will start in 3 minutes.
The air conditioner does not work at all.	• Check that the power plug is properly connected. Insert the power plug into the wall socket correctly. • Check if the circuit breaker is switched off. • Check if there is a power failure. • Check your fuse. Make sure it is not blown out.
The temperature does not change.	• Check if you selected Fan mode. Press the **Mode** button on the remote control to select another mode.
The cool(warm) air does not come out of the air conditioner.	• Check if the set temperature is higher (lower) than the current temperature. Press the **Temperature** button on the remote control to change the set temperature. Press the **Temperature** △ or ▽ button to increase or decrease the temperature. • Check if the air filter is blocked by dirt. Clean the Air filter every two weeks. • Check if the air conditioner has just been turned on. If so, wait 3 minutes.
The fan speed does not change.	• Check if you selected Auto or Dry mode. The air conditioner automatically adjusts the fan speed to Auto in Auto/Dry mode.
Timer function does not set.	• Check if you press the **Set/Cancel** button on the remote control after you have set the time.
Odors permeate in the room during operation.	• Check if the appliance is running in a smoky area or if there is a smell entering from outside. Operate the air conditioner in Fan mode or open the windows to air out the room.
The air conditioner makes a bubbling sound.	• A bubbling sound may be heard when the refrigerant is circulating through the compressor. Let the air conditioner operate in a selected mode.
Water is dripping from the air flow blades.	• Check if the air conditioner has been cooling for an extended period of time with the air flow blades pointed downwards. Condensation may generate due to the difference in temperature.
Remote control is not working.	• Check if your batteries are depleted. • Make sure batteries are correctly installed. • Make sure nothing is blocking your remote control sensor. • Check that there are strong lighting apparatus near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interrupt the electric waves.

OPERATION RANGES

The table below indicates the temperature and humidity ranges the air conditioner can be operated within. Refer to the table for efficient use.

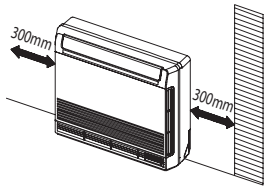
MODE	OPERATIONAL TEMPERATURE		INDOOR HUMIDITY	IF OUT OF CONDITIONS
	INDOOR	OUTDOOR		
COOLING	18˚C to 32˚C	-5˚C to 43˚	80% or less	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.
HEATING	27˚C or less	-20˚C to 24˚C	-	Internal protection triggers and the air conditioner will stop.
DRYING	18˚C to 32˚C	-5˚C to 43˚C	-	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.

The standardized temperature for heating is 7˚C. If the outdoor temperature drops to 0˚C or below, the heating capacity can be reduced depending on the temperature condition.
If the cooling operation is used at over 32˚C(indoor temperature), it does not cool at its full capacity.

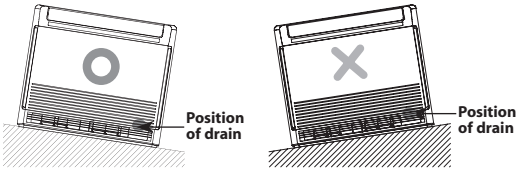
Indoor Unit Installation

It is recommended to install the Y-joint before installing the indoor unit.

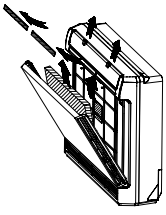
1. When you install the indoor with side-pipe connection, please make space more than 300mm from the wall.



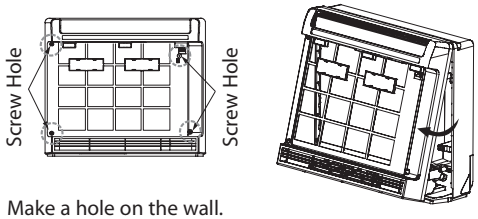
2. When you install the indoor at the inclined floor, please lean the set toward the drain hose and pipe connection to prevent water overflowing.



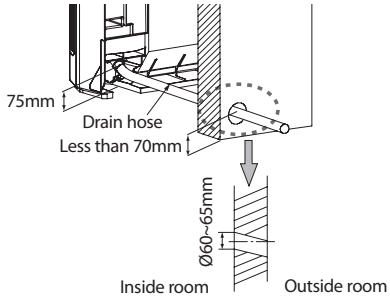
3. Please remove the items when set is installed.
✳AVXTJH028/036EE : 6 Items
✳AVXTJH056EE : 7 Items.



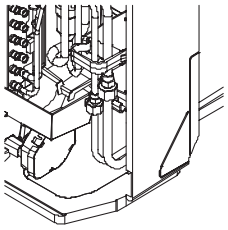
4. The body front should be opened to connect pipes. Please release the 4 screws of body front and then pull it out from the bottom of the set.



5. Make a hole on the wall.

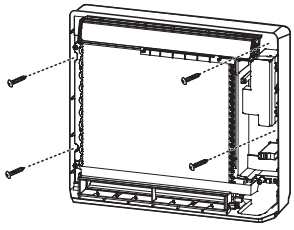


6. The pipes & cable should be gone through the bottom back hole.



7. Hanging the indoor unit on the Bracket Hanger, then fix the Indoor Unit by using 4 Screws.
- ◆ Case 1. Installing on the floor : Must fix 4 screws on the wall, make the indoor not to fall down(For safety installation).
- ◆ Case 2. Hanging on the wall : Follow the installation guide supplied in the accessory part.

❊ Screw positions are specified on the installation guide.

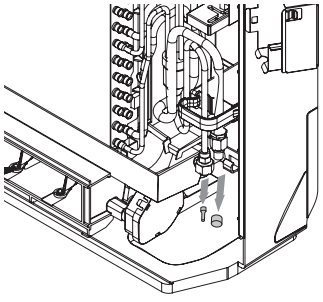


Performing Leak Test & Insulation

Leak test

LEAK TEST WITH NITROGEN(before opening valves)
In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R410A, it's responsible of installer to pressurize the whole system with nitrogen(using a pressure regulator) at a pressure above 4.1MPa(gauge).

LEAK TEST WITH R410A(after opening valves)
Before opening valves, discharge all the nitrogen into the system and create vacuum. After opening valves check leaks using a leak detector for refrigerant R410A.



⚠ CAUTION

Discharge all the nitrogen to create a vacuum and charge the system.

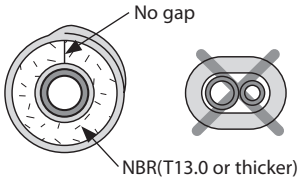
ENGLISH

Insulation

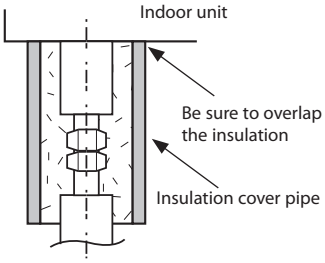
Once you have checked that there are no leaks in the system, you can insulate the piping and hose.

1. To avoid condensation problems, place **T13.0 or thicker Acrylonitrile Butadien Rubber** separately around each refrigerant pipe.

   Note Always make the seam of pipes face upwards.



2. Wind insulating tape around the pipes and drain hose avoiding to compress the insulation too much.



⚠ CAUTION

Must fit tightly against body without any gap.

3. Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.
4. The pipes and electrical cables connecting the indoor unit with the outdoor unit must be fixed to the wall with suitable ducts.

⚠ CAUTION

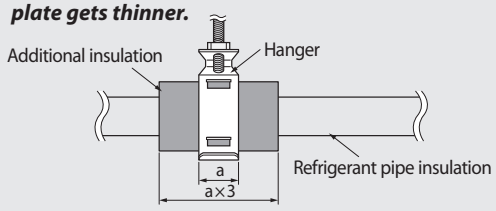
All refrigerant connection must be accessible, in order to permit either unit maintenance or removing it completely.

5. Select the insulation of the refrigerant pipe.
   - ◆ Insulate the gas side and liquid side pipe referring to the thickness according to the pipe size.
   - ◆ The thickness according to the pipe size is a standard of the indoor temperature of 27°C and humidity of 80%. If installing in an unfavorable conditions, use thicker one.
   - ◆ Insulator's heat-resistance temperature should be more than 120°C.

Pipe size (mm)	Minimum thickness of insulation (mm)		Remarks
	PE foam	EPDM foam	
Ø6.35~Ø15.88	13	10	If you install the pipe underground, at the seaside, a spa or on the lake, use 1 grade thicker one according to the pipe size.
-	25	19	

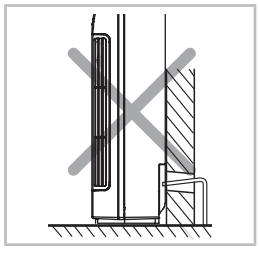
⚠ CAUTION

- ◆ ***Install the insulation not to get wider and use the adhesives on the connection part of it to prevent moisture from entering.***
- ◆ ***Wind the refrigerant pipe with insulation tape if it is exposed to outside sunlight.***
- ◆ ***Install the refrigerant pipe respecting that the insulation does not get thinner on the bent part or hanger of pipe.***
- ◆ ***Add the additional insulation if the insulation plate gets thinner.***

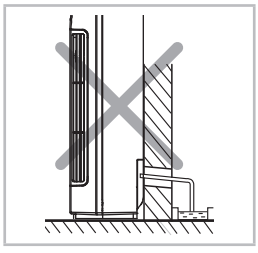


Drain hose installation

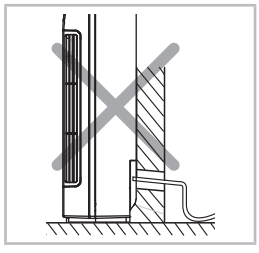
When installing the drain hose for the indoor unit, check if condensation draining is adequate.
When passing the drain hose through the 65mm hole drilled in the wall, check the following:



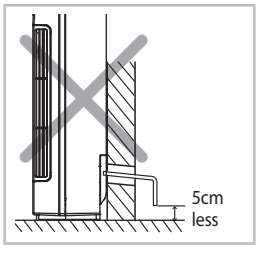
The hose must NOT slant upwards.



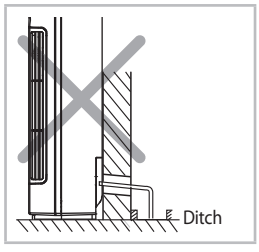
The end of the drain hose must NOT be placed under water.



Do NOT bend the hose in different directions.



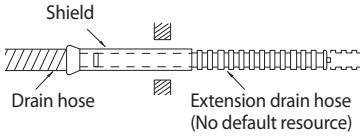
Keep a clearance of at least 5cm between the end of the hose and the ground.



Do NOT place the end of the drain hose in a hollow.

Drain hose installation

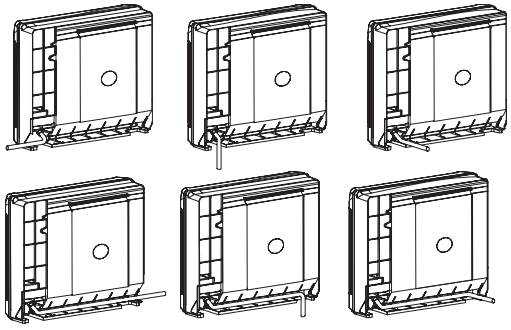
1. If necessary, connect the 2 meter extension drain hose to the drain hose.

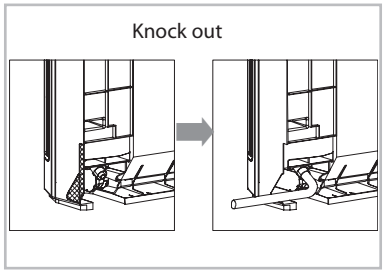


2. If you use the extension drain hose, insulate the inside of the extension drain hose with a shield.
3. Fit the drain hose into 1 of 2 drain hose holes, then fix the end of the drain hose tightly with a clamp.
   - ◆ If you don't use the other drain hose hole, block it with a rubber stopper.
4. Pass the drain hose under the refrigerant pipe, keeping the drain hose tight.
5. Pass the drain hose through the hole in the wall. Check if it slants downwards as seen in the picture.

   ❊ ***The hose will be fixed permanently into position after finishing the installation and the gas leak test.***

6-Ways to connect Drain Hose and Pipe

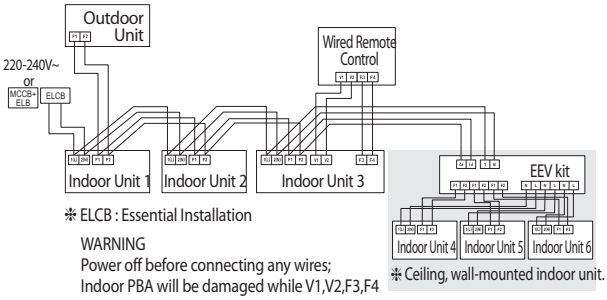




Wiring Work

Power and communication cable connection

1. Before wiring work, you must turn off all power source.
2. Indoor unit power should be supplied through the breaker(ELCB or MCCB+ELB) separated by the outdoor power.
   ELCB: Earth Leakage Circuit Breaker
   MCCB:Molded Case Circuit Breaker
   ELB:Earth Leakage Breaker
3. The power cable should be used only copper wires.
4. Connect the power cable{1(L), 2(N)} among the units within maximum length and communication cable(F1, F2) each.
5. Connect V1, V2(for DC12V) and F3, F4(for communication) when installing the wired remote Control.

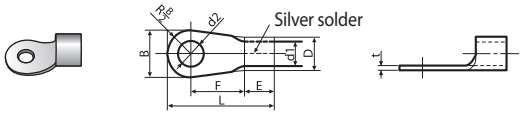


❊ ELCB : Essential Installation

WARNING
Power off before connecting any wires;
Indoor PBA will be damaged while V1,V2,F3,F4 short each other.

❊ Ceiling, wall-mounted indoor unit.

Selecting compressed ring terminal



Norminal dimensions for cable (mm^2)	Norminal dimensions for screw (mm)	B		D		d1		E	F	L	d2		t
		Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Min.	Min.	Max.	Standard dimension (mm)	Allowance (mm)	Min.
1.5	4	6.6	±0.2	3.4	+0.3 -0.2	1.7	±0.2	4.1	6	16	4.3	+0.2 0	0.7
	4	8											
2.5	4	6.6	±0.2	4.2	+0.3 -0.2	2.3	±0.2	6	6	17.5	4.3	+0.2 0	0.8
	4	8.5											
4	4	9.5	±0.2	5.6	+0.3 -0.2	3.4	±0.2	6	5	20	4.3	+0.2 0	0.9

Specification of electronic wire

Power supply	MCCB	ELB or ELCB	Power cable	Earth cable	Communication cable
Max : 242V Min : 198V	*X* A	*X* A, 30mmA 0.1 sec	2.5mm²	2.5mm²	0.75~1.5mm²

◆ Decide the capacity of ELCB(or MCCB+ELB) by below formula.

The capacity of ELCB(or MCCB+ELB) *X* [A] = 1.25 X 1.1 X ∑Ai

✶ *X* : The capacity of ELCB(or MCCB+ELB).
✶ ∑Ai : Sum of Rating currents of each indoor unit.
✶ Refer to each installation manual about the rating current of indoor unit.

◆ Decide the power cable specification and maximum length within 10% power drop among indoor units.

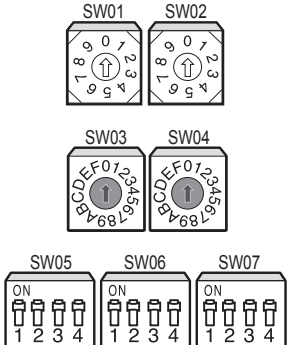
$$\sum_{k=1}^{n}\left(\frac{Coef\times 35.6\times L_k\times i_k}{1000\times A_k}\right) < \text{10\% of input voltage[V]}$$

✶ Coef: 1.55
✶ L_k: Distance among each indoor unit[m],
A_k: Power cable specification[mm^2], i_k: Running current of each unit[A]

ENGLISH

Indoor Unit Setting

1. Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
2. The address of the indoor unit is assigned by adjusting MAIN(SW01, SW02) and RMC(SW03, SW04) rotary switches.

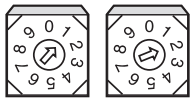


Setting MAIN Address

- The MAIN address is for communication between the indoor unit and the outdoor unit. Therefore, you must set it to operate the air conditioner properly.
- You can set the MAIN address from '00' to '99' by mixing SW01 and SW02.
  The MAIN address from '00' to '99' should differ from each other.
- Check the indoor unit address on the plan that you are to install and set the address according to the plan.

Note You may not need to set MAIN address if you selected Auto Address Setting from the outdoor unit: see details on the outdoor unit installation manual.

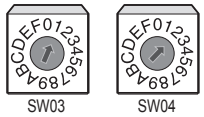
For Example **When MAIN address is set as "12".**



Setting RMC Address

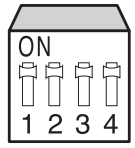
- The SW03, SW04 RMC switch is the address setting switch for controlling the indoor unit with the centralized controller.
- You must set the SW03, SW04 and K2 switch when using the centralized controller.

For Example **When RMC address is set as "12".**



Additional Functions

K1 K2 K3 K4

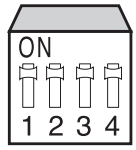


SW05

No.		Function	ON	OFF
SW05	K1	External room sensor	Not use	Use
	K2	Centralized controller	Not use	Use
	K3	-	-	-
	K4	-	-	-

✳ K1 OFF
Heating mode : Setting temperature compensation value = 0°C
Thermo OFF → Fan OFF

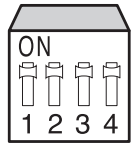
K5 K6 K7 K8



SW06

No.		Function	ON	OFF
SW06	K5	Heating Current Temperature Compensation	+2°C	+5°C
	K6	Filter Time	1,000 hours	2,000 hours
	K7	-	-	-
	K8	-	-	-

K9 K10 K11 K12



SW07

No.		Function	ON	OFF
SW07	K9	Indoor Expansion Valve For Heating Stop	Fix 80 step	0 or 80 step
	K10	Wired Remocon Group Master	Not Use	Use
	K11	External control	Not Use	Use
	K12	Operation output	Thermal ON	Operation ON

Model specification (Dimension and weight)

Dimension and weight			
Type	**Model**	**Net dimension (WxDxH) (mm)**	**Net weight (kg)**
Indoor unit	AVXTJH028EE	720*620*119	16
	AVXTJH036EE	720*620*119	16
	AVXTJH056EE	720*620*119	16

Type	Model	Net dimension (WxDxH) (mm)	Net weight (kg)
Outdoor unit (DVM+4)	RD080HHXGB	880*765*1695	237
	RD100HHXGB	880*765*1695	237
	RD120HHXGB	880*765*1695	240
	RD140HHXGB	1295*765*1695	280
	RD160HHXGB	1295*765*1695	329
	RD180HHXGB	1295*765*1695	340
	RD200HHXGB	1295*765*1695	349
	RD080HRXGB	880*765*1695	243
	RD100HRXGB	880*765*1695	243
	RD120HRXGB	880*765*1695	243
	RD140HRXGB	1295*765*1695	293
	RD160HRXGB	1295*765*1695	338
	RD180HRXGB	1295*765*1695	349
	RD200HHXGB	1295*765*1695	355
Outdoor unit (DVM Mini)	RD040MHXEA	940*330*1210	100
	RD050MHXEA	940*330*1210	100
	RD060MHXEA	940*330*1210	103
	RD040MHXGA	940*330*1210	100
	RD050MHXGA	940*330*1210	100
	RD060MHXGA	940*330*1210	103

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